

=> fil reg

FILE 'REGISTRY' ENTERED AT 12:33:40 ON 04 FEB 2010

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STRUCTURE FILE UPDATES: 2 FEB 2010 HIGHEST RN 1204474-62-3

DICTIONARY FILE UPDATES: 2 FEB 2010 HIGHEST RN 1204474-62-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

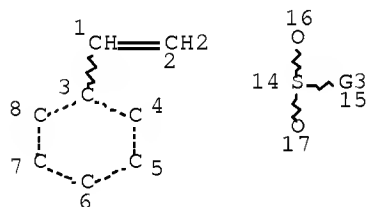
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d que stat 117

L6 STR



VAR G3=O/N/X

NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

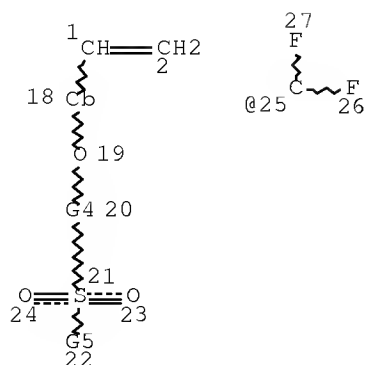
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L8 5961 SEA FILE=REGISTRY SSS FUL L6

L15 STR



REP G4=(1-20) 25

VAR G5=X/O/N

NODE ATTRIBUTES:

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GGCAT IS MCY UNS AT 18

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C AT 18

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L17 41 SEA FILE=REGISTRY SUB=L8 SSS FUL L15

100.0% PROCESSED 48 ITERATIONS

41 ANSWERS

SEARCH TIME: 00.00.01

=> d his

(FILE 'HOME' ENTERED AT 12:02:27 ON 04 FEB 2010)

FILE 'LREGISTRY' ENTERED AT 12:03:50 ON 04 FEB 2010

L1 STR

FILE 'REGISTRY' ENTERED AT 12:05:56 ON 04 FEB 2010

L2 4 S L1

FILE 'LREGISTRY' ENTERED AT 12:06:56 ON 04 FEB 2010

L3 STR L1

FILE 'REGISTRY' ENTERED AT 12:11:30 ON 04 FEB 2010

L4 0 S L3

FILE 'LREGISTRY' ENTERED AT 12:18:27 ON 04 FEB 2010

L5 STR L3

L6 STR L1

FILE 'REGISTRY' ENTERED AT 12:19:43 ON 04 FEB 2010

L7 50 S L6

L8 5961 S L6 FUL

SAV L8 HU878/A

L9 STR L5

February 4, 2010

10/560,878

3

L10 17 S L9 SSS SAM SUB=L8

L11 FILE 'LREGISTRY' ENTERED AT 12:21:33 ON 04 FEB 2010
STR L9

L12 FILE 'REGISTRY' ENTERED AT 12:22:46 ON 04 FEB 2010
STR L11

L13 FILE 'LREGISTRY' ENTERED AT 12:23:51 ON 04 FEB 2010
STR L12

L14 FILE 'REGISTRY' ENTERED AT 12:29:59 ON 04 FEB 2010
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L15 STR L13
L16 3 S L15 SSS SAM SUB=L8
L17 41 S L15 SSS FUL SUB=L8
SAV L17 HU878S1/A

L18 FILE 'HCAPLUS' ENTERED AT 12:31:47 ON 04 FEB 2010
8 S L17

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 12:33:56 ON 04 FEB 2010
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FILE COVERS 1907 - 4 Feb 2010 VOL 152 ISS 6
FILE LAST UPDATED: 3 Feb 2010 (20100203/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d ibib abs hitstr hitind l18 1-8

L18 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2009:53923 HCAPLUS Full-text
DOCUMENT NUMBER: 150:102120
TITLE: Fuel cell electrolytes and electrolyte

February 4, 2010

10/560,878

4

membranes, fuel cell catalyst layers,
membrane-electrode assemblies (MEA), polymer
electrolyte fuel cells (PEFC), and direct
methanol-type fuel cells (DMFC)

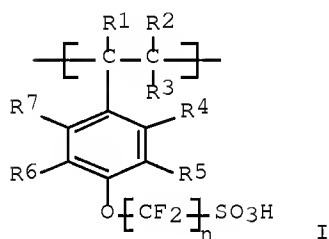
INVENTOR(S): Hayano, Tetsuji; Kuromatsu, Hidehisa
PATENT ASSIGNEE(S): Kaneka Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009009828	A	20090115	JP 2007-170310	20070628
PRIORITY APPLN. INFO.:			JP 2007-170310	20070628

GI



AB The electrolytes contain repeating units I (R1-R7 = H, Cl, alkyl, chlorinated alkyl, aryl, chlorinated aryl; n ≥ 1 integer) and show excellent proton conductivity and handling performance.

IT 1095000-00-2P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(fuel cell electrolytes containing vinyl fluoroalkylsulfonic acid copolymer)

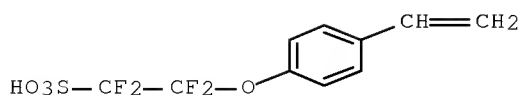
RN 1095000-00-2 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-, sodium salt (1:1), polymer with ethenylbenzene (CA INDEX NAME)

CM 1

CRN 1094999-99-1

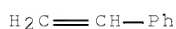
CMF C10 H8 F4 O4 S . Na



CM 2

CRN 100-42-5

CMF C8 H8



CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
 IT 1095000-00-2P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (fuel cell electrolytes containing vinyl fluoroalkylsulfonic acid copolymer)

L18 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2008:1251303 HCAPLUS Full-text
 DOCUMENT NUMBER: 149:449161
 TITLE: Electrically conductive polymer compositions for use in organic electronic devices
 INVENTOR(S): Hsu, Che-Hsiung; Skulason, Hjalti
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 17pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

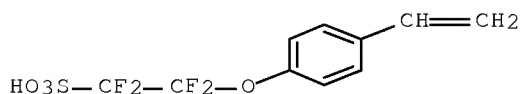
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080251768	A1	20081016	US 2008-101517	20080411
PRIORITY APPLN. INFO.:				20070413
				US 2007-911670P

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

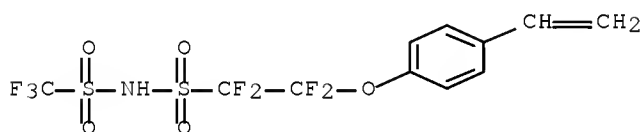
AB A polymer composition comprises ≥ 1 intrinsically conductive polymer having ≥ 1 monomer unit comprising a pyridine-fused heteroarom.; and ≥ 1 fluorinated acid polymer.
 IT 252975-59-0D, copolymers 252975-62-5D, copolymers
 RL: TEM (Technical or engineered material use); USES (Uses)
 (Elec. conductive polymer compns. for use in organic electronic

devices)

RN 252975-59-0 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt (1:1) (CA INDEX NAME)

RN 252975-62-5 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]-, lithium salt (1:1) (CA INDEX NAME)

INCL 252500000; 528423000; 528373000; 528360000; 528271000

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 76

IT 252975-59-0D, copolymers 252975-62-5D,
copolymers 1052730-93-4, 1,1-Difluoroethylene-2-[1,1-Difluoro-2-
(trifluoromethyl)allyloxy]-1,1,2,2-tetrafluoroethanesulfonic acid
copolymer 1052730-94-5, Ethylene-2-(2-(1,2,2-trifluorovinyl)-
1,1,2,3,3,3-hexafluoropropoxy)-1,1,2,2-tetrafluoroethanesulfonic
acid copolymerRL: TEM (Technical or engineered material use); USES (Uses)
(Elec. conductive polymer compns. for use in organic electronic
devices)

L18 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:912190 HCAPLUS Full-text

DOCUMENT NUMBER: 147:258760

TITLE: Fluorinated acid polymer-containing transparent
composite conductors having high work functionINVENTOR(S): Hsu, Che-Hsiung; Smith, Eric Maurice; Lecloux,
Daniel David; Yeisley, Shawn; Skulason, Hjalti

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 43pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007092296      A3      20080619
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      CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
      GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,
      KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY,
      MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
      PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV,
      SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM,
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  RW:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
      IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR,
      BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
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US 20080003449      A1      20080103      US 2007-700456
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EP 1994119          A2      20081126      EP 2007-763641
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      TR, AL, BA, HR, MK, RS
JP 2009526351      T      20090716      JP 2008-553369
                                           200702
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CN 101379162        A      20090304      CN 2007-80004265
                                           200808
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KR 2008103062        A      20081126      KR 2008-721509
                                           200809
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PRIORITY APPLN. INFO.:      US 2006-765031P      P
                                           200602
                                           03
                                           WO 2007-US2858      W
                                           200702
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A transparent composite conductor having a work function > 5.0 eV comprises a first layer comprising a transparent conductive material, and a second layer comprising a fluorinated acid polymer. The transparent conductive material may be a mixed oxide, a metal, or a conductive polymer. Thus, a composite comprising an indium tin oxide layer coated with hydrolyzed homopolymer of perfluoro(4-methyl-3,6-dioxa-7-octene)sulfonyl fluoride (Mw=9900, Mn=4300, Tg=6.4°) had a work function of 6.18 eV.

IT 252975-63-6 252975-69-2

RL: TEM (Technical or engineered material use); USES (Uses)
(fluorinated acid polymer-containing transparent composite conductors having high work function)

RN 252975-63-6 HCAPLUS

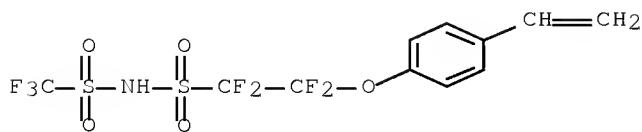
CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]-, lithium salt (1:1), homopolymer (CA

INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li



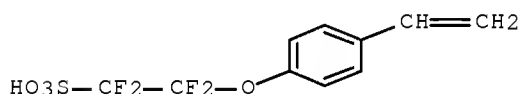
RN 252975-69-2 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt (1:1), homopolymer (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li



IC ICM B29D

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 37, 76

IT 252975-63-6 252975-69-2

RL: TEM (Technical or engineered material use); USES (Uses)

(fluorinated acid polymer-containing transparent composite conductors
having high work function)OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
RECORD (1 CITINGS)

L18 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:1336827 HCAPLUS Full-text

DOCUMENT NUMBER: 146:84641

TITLE: Solid electrolyte, its manufacture,
membrane-electrode assembly (MEA), and fuel cell
INVENTOR(S): Kaneko, Masayuki; Inasaki, Takeshi; Nomura,
Kimiatsu

PATENT ASSIGNEE(S): Fujifilm Holdings Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 64pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

February 4, 2010

10/560,878

9

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2006344587	A	20061221	JP 2006-133697	20060512
				20050513

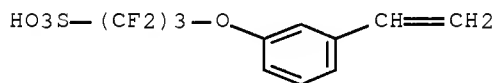
PRIORITY APPLN. INFO.: JP 2005-141504 A

AB The solid electrolyte contains a polymer compound having a polymer obtained by graft-polymerizing a acid residue-containing polymerizable monomer as side chain; and is manufactured by graft-polymerizing the polymerizable monomer. which has the acid residue in the main chain of the polymer compound The MEA has a solid electrolyte membrane between a pair of gas diffusion electrodes; where the electrolyte membrane and/or the electrodes contains the above solid electrolyte. The fuel cell contains the above MEA.

IT 917392-61-1DP, r.p. with polyetherpolysulfones
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of solid electrolytes containing graft polymers for membrane-electrode assemblies in fuel cells)

RN 917392-61-1 HCAPLUS

CN 1-Propanesulfonic acid, 3-(3-ethenylphenoxy)-1,1,2,2,3,3-hexafluoro-, lithium salt (1:1) (CA INDEX NAME)



● Li

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
IT 25154-01-2DP, sulfonated, polymers with substituted styrenes
25667-42-9DP, sulfonated, polymers with substituted styrenes
113736-28-0P 917392-58-6P 917392-60-0DP, r.p. with polyetherpolysulfones 917392-61-1DP, r.p. with polyetherpolysulfones
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of solid electrolytes containing graft polymers for membrane-electrode assemblies in fuel cells)

L18 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:957151 HCAPLUS Full-text

DOCUMENT NUMBER: 138:311425

TITLE: Acid catalyst mobility in resist resins

AUTHOR(S): Stewart, Michael D.; Tran, Hoang Vi; Schmid, Gerard M.; Stachowiak, Timothy B.; Becker, Darren J.; Willson, C. Grant

CORPORATE SOURCE: Department of Chemical Engineering, The University of Texas at Austin, Austin, TX,

SOURCE: 78712, USA
Journal of Vacuum Science & Technology, B:
Microelectronics and Nanometer Structures
(2002), 20(6), 2946-2952
CODEN: JVTBD9; ISSN: 0734-211X
PUBLISHER: American Institute of Physics
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In a chemical amplified resist absorbed photons generate stable catalyst mols. instead of directly switching resist solubility via photochem. reaction. This allows for much lower exposure doses to be used in imaging. Some catalyst mobility is necessary to achieve amplification since the catalyst must move from reaction site to reaction site, but a mobile catalyst can blur the deposited aerial image. Catalyst mols. that are free to move in exposed regions are also free to move into adjacent unexposed regions. Understanding acid catalyst diffusion in photoresist resins is complicated by the constantly changing chemical environment the diffusing catalyst experiences as the resist undergoes chemical reactions. The diffusing catalyst promotes chemical reactions which change the properties of its surrounding resin. In addition, it is possible a transient material state is generated by volatile reaction byproducts and their desorption from the film. In most photoresist systems it is impossible to sep. reaction and diffusion effects. This work describes studies of acid diffusion in polymers that are close structural analogs to reactive photoresist resins but do not react with the diffusing acidic catalyst. The purpose of this study into nonreactive polymer is to gain insight into the more complex, reactive systems. In addition, expts. with polymeric photoacid generators are reported. These materials provide added insight into acid transport in photoresist materials.

IT 252975-70-5D, dimethylphenylsulfonium ion exchange
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)
(polymeric photoacid generator; diffusion of acid mols. in polymers in relation to mobility of photogenerated acid in chemical amplified photoresists)

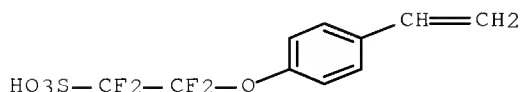
RN 252975-70-5 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-, lithium salt, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

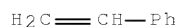


● Li

CM 2

CRN 100-42-5

CMF C8 H8



CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT 252975-70-5D, dimethylphenylsulfonium ion exchange
509100-87-2
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process) (polymeric photoacid generator; diffusion of acid mols. in polymers in relation to mobility of photogenerated acid in chemical amplified photoresists)

OS.CITING REF COUNT: 60 THERE ARE 60 CAPLUS RECORDS THAT CITE THIS RECORD (61 CITINGS)

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:763572 HCAPLUS Full-text

DOCUMENT NUMBER: 134:42501

TITLE: Novel Aromatic Polymers with Pendant Lithium Perfluoroalkylsulfonate or Sulfonimide Groups

AUTHOR(S): Feiring, Andrew E.; Choi, Susan K.; Doyle, Marc; Wonchoba, Edward R.

CORPORATE SOURCE: Experimental Station, Central Research and Development, E. I. Du Pont de Nemours and Co., Wilmington, DE, 19880-0328, USA

SOURCE: Macromolecules (2000), 33(25), 9262-9271
CODEN: MAMOBX; ISSN: 0024-9297

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Styrenes with pendant lithium perfluoroalkyl ether sulfonate or sulfonimide groups readily homopolymd. and copolymd. with olefinic monomers to provide moderate to high mol. weight ionomers. Comonomers included styrene, Me methacrylate, acrylonitrile, and acrylates. In addition, soluble polymers containing both mobile lithium ions and immobilized tetraalkylammonium cations were prepared. Crosslinked polymers were obtained by copolymn. of the functionalized styrenes with difunctional comonomers or by curing with an unsatd. elastomer. Polyesters with pendant lithium perfluoroalkylsulfonate groups were obtained by condensation polymerization of functionalized isophthalate monomers with bis(hydroxyethyl)terephthalate. Surprisingly, most of the ethylene glycol units in the polymers were converted into polyethylene glycol segments during polymerization. Lithium ion conductivities of 10^{-4} - 10^{-3} S/cm were shown by selected polymers in solution or as solvent swollen films.

IT 252975-63-6P 252975-69-2P
252975-70-5P 252975-71-6P 252975-72-7P
252975-73-8P 252975-74-9P 252975-77-2P
252975-79-4P 252975-81-8P 252975-82-9P
252975-83-0P 252975-85-2P 252975-87-4P
252975-95-4P 313242-72-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(aromatic polymers with pendant lithium perfluoroalkylsulfonate or sulfonimide groups)

RN 252975-63-6 HCAPLUS

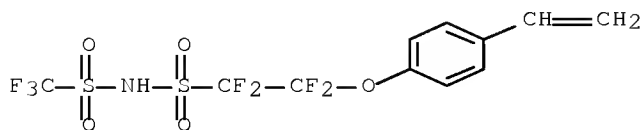
CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-

[(trifluoromethyl)sulfonyl]-, lithium salt (1:1), homopolymer (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li



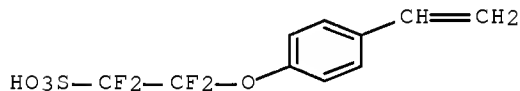
RN 252975-69-2 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-, lithium salt (1:1), homopolymer (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li



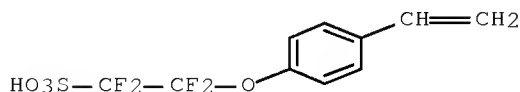
RN 252975-70-5 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-, lithium salt, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

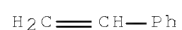
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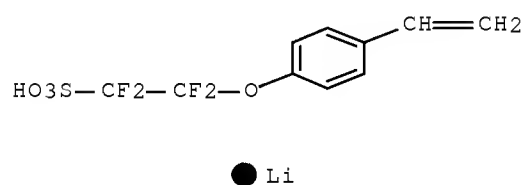
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CMF C8 H8



RN 252975-71-6 HCAPLUS
CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with ethenylbenzene and 2-propenenitrile (9CI)
(CA INDEX NAME)

CM 1

CRN 252975-59-0
CMF C10 H8 F4 O4 S . Li



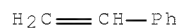
CM 2

CRN 107-13-1
CMF C3 H3 N



CM 3

CRN 100-42-5
CMF C8 H8

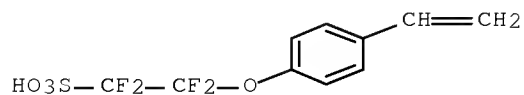


RN 252975-72-7 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene and
lithium 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate
(9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

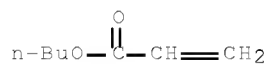
CMF C10 H8 F4 O4 S . Li



CM 2

CRN 141-32-2

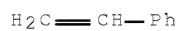
CMF C7 H12 O2



CM 3

CRN 100-42-5

CMF C8 H8



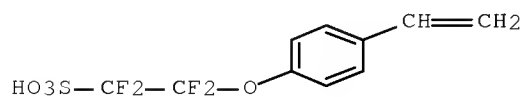
RN 252975-73-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with lithium
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA
 INDEX NAME)

CM 1

CRN 252975-59-0

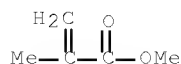
CMF C10 H8 F4 O4 S . Li



CM 2

CRN 80-62-6

CMF C5 H8 O2



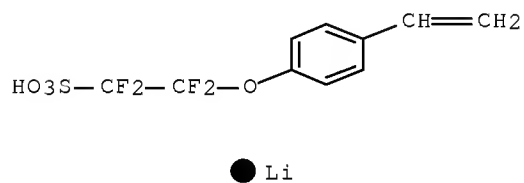
RN 252975-74-9 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-, lithium salt, polymer with 2-propenenitrile (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li



CM 2

CRN 107-13-1

CMF C3 H3 N



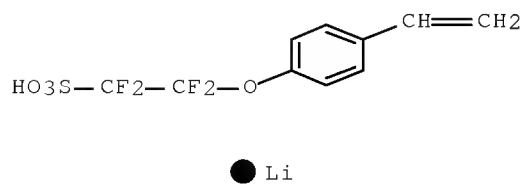
RN 252975-77-2 HCAPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with lithium 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

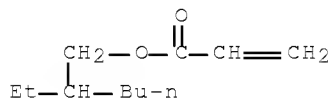
CMF C10 H8 F4 O4 S . Li



CM 2

CRN 103-11-7

CMF C11 H20 O2



RN 252975-79-4 HCAPLUS

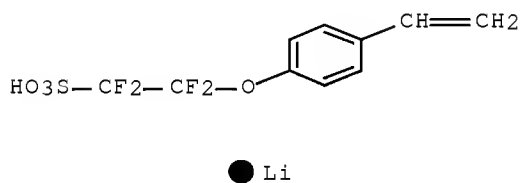
CN 2-Propenoic acid, methyl ester, polymer with lithium

2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

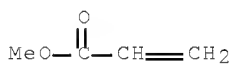
CMF C10 H8 F4 O4 S . Li



CM 2

CRN 96-33-3

CMF C4 H6 O2



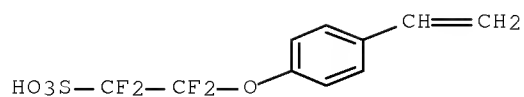
RN 252975-81-8 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-, lithium salt, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -ethoxypoly(oxy-1,2-ethanediyl) and α -(1-oxo-2-propenyl)- ω [(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

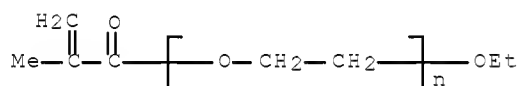


CM 2

CRN 35625-93-5

CMF (C2 H4 O)_n C6 H10 O2

CCI PMS

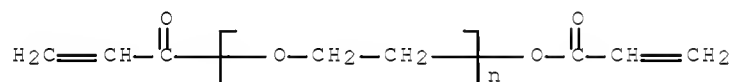


CM 3

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

CCI PMS



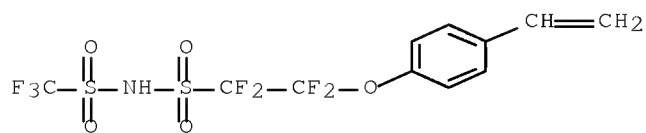
RN 252975-82-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt (9CI) (CA
 INDEX NAME)

CM 1

CRN 252975-62-5

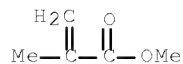
CMF C11 H8 F7 N O5 S2 . Li



CM 2

CRN 80-62-6

CMF C5 H8 O2



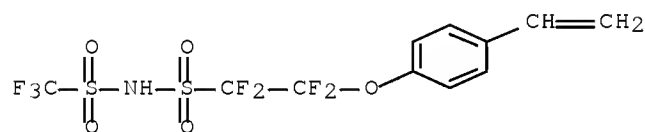
RN 252975-83-0 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]-, lithium salt, polymer with
ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

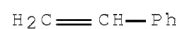
CMF C11 H8 F7 N O5 S2 . Li



CM 2

CRN 100-42-5

CMF C8 H8



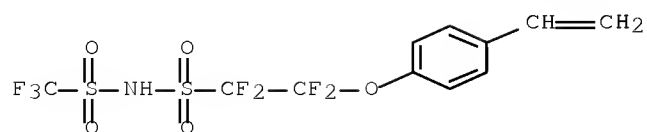
RN 252975-85-2 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt (9CI) (CA
INDEX NAME)

CM 1

CRN 252975-62-5

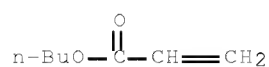
CMF C11 H8 F7 N O5 S2 . Li



CM 2

CRN 141-32-2

CMF C7 H12 O2



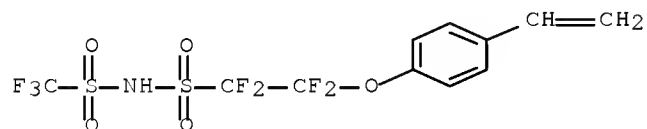
RN 252975-87-4 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -ethoxypoly(oxy-1,2-
 ethanediyl) and α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-
 propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li

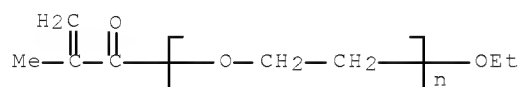


CM 2

CRN 35625-93-5

CMF (C2 H4 O)_n C6 H10 O2

CCI PMS

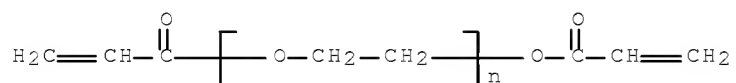


CM 3

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

CCI PMS



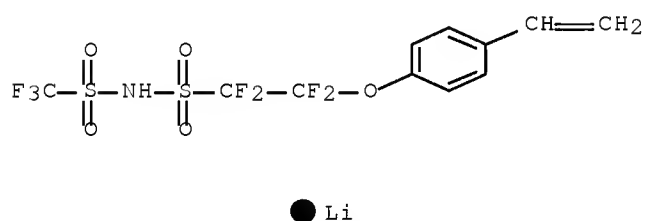
RN 252975-95-4 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt and
 lithium 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate
 (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

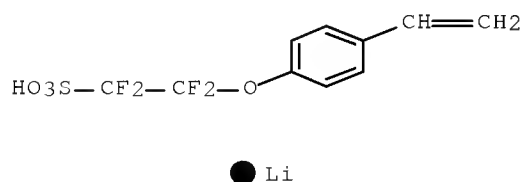
CMF C11 H8 F7 N O5 S2 . Li



CM 2

CRN 252975-59-0

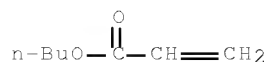
CMF C10 H8 F4 O4 S . Li



CM 3

CRN 141-32-2

CMF C7 H12 O2



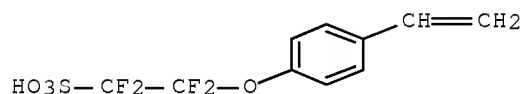
RN 313242-72-7 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with lithium
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA
INDEX NAME)

CM 1

CRN 252975-59-0

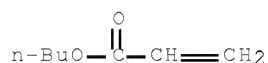
CMF C10 H8 F4 O4 S . Li



CM 2

CRN 141-32-2

CMF C7 H12 O2



IT 252988-95-7P 252988-97-9P

RL: PEP (Physical, engineering or chemical process); SPN (Synthetic
preparation); PREP (Preparation); PROC (Process)
(monomer; for synthesis of aromatic polymers with pendant lithium
perfluoroalkylsulfonate or sulfonimide groups)

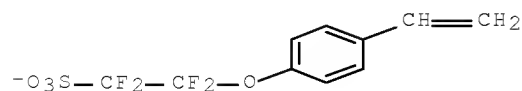
RN 252988-95-7 HCAPLUS

CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonic acid (1:1)
(9CI) (CA INDEX NAME)

CM 1

CRN 252988-94-6

CMF C10 H7 F4 O4 S



CM 2

CRN 53867-17-7

CMF C12 H18 N

CCI IDS

D1-CH=CH₂Me₃⁺N-CH₂-D1

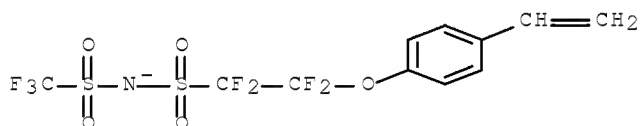
RN 252988-97-9 HCAPLUS

CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]ethanesulfonamide (1:1) (9CI) (CA INDEX
NAME)

CM 1

CRN 252988-96-8

CMF C11 H7 F7 N O5 S2



CM 2

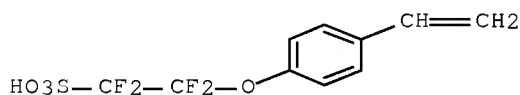
CRN 53867-17-7

CMF C12 H18 N

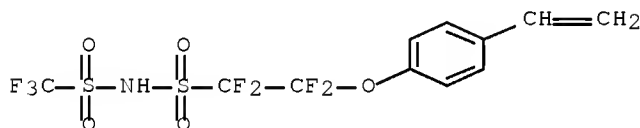
CCI IDS

D1-CH=CH₂Me₃⁺N-CH₂-D1

IT 252975-59-0 252975-62-5, Ethanesulfonamide,
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant; in preparation of monomer for synthesis of aromatic polymers
 with pendant lithium perfluoroalkylsulfonate or sulfonimide
 groups)
 RN 252975-59-0 HCAPLUS
 CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
 lithium salt (1:1) (CA INDEX NAME)



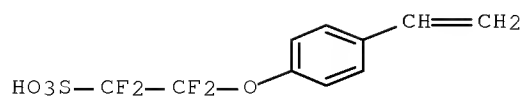
RN 252975-62-5 HCAPLUS
 CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt (1:1) (CA INDEX NAME)



IT 252975-89-6P 313273-50-6P
 313273-51-7P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP
 (Preparation)
 (synthesis of aromatic polymers with pendant lithium
 perfluoroalkylsulfonate or sulfonimide groups)
 RN 252975-89-6 HCAPLUS
 CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
 lithium salt, polymer with (chloromethyl)oxirane, oxirane and
 [(2-propenyloxy)methyl]oxirane (9CI) (CA INDEX NAME)

CM 1

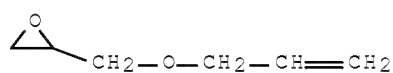
CRN 252975-59-0
 CMF C10 H8 F4 O4 S . Li



CM 2

CRN 106-92-3

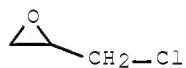
CMF C6 H10 O2



CM 3

CRN 106-89-8

CMF C3 H5 Cl O



CM 4

CRN 75-21-8

CMF C2 H4 O



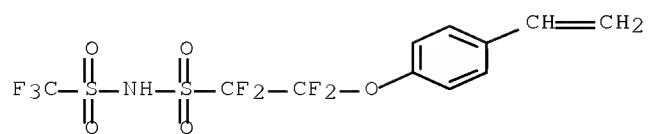
RN 313273-50-6 HCAPLUS

CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonic acid (1:1),
 polymer with 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt and methyl
 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

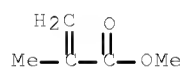
CMF C11 H8 F7 N O5 S2 . Li



CM 2

CRN 80-62-6

CMF C5 H8 O2



CM 3

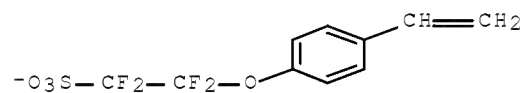
CRN 252988-95-7

CMF C12 H18 N . C10 H7 F4 O4 S

CM 4

CRN 252988-94-6

CMF C10 H7 F4 O4 S



CM 5

CRN 53867-17-7

CMF C12 H18 N

CCI IDS



D1-CH=CH2

Me3⁺N-CH2-D1

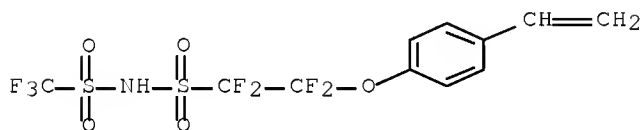
RN 313273-51-7 HCAPLUS

CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide (1:1), polymer with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt and methyl
 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

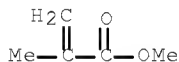
CMF C11 H8 F7 N O5 S2 . Li



CM 2

CRN 80-62-6

CMF C5 H8 O2



CM 3

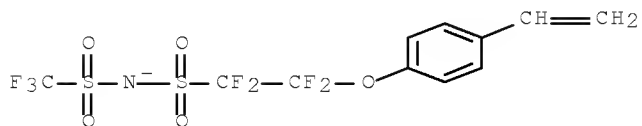
CRN 252988-97-9

CMF C12 H18 N . C11 H7 F7 N O5 S2

CM 4

CRN 252988-96-8

CMF C11 H7 F7 N O5 S2



CM 5

CRN 53867-17-7
CMF C12 H18 N
CCI IDS



D1-CH=CH₂

Me₃⁺N-CH₂-D1

CC 35-4 (Chemistry of Synthetic High Polymers)
IT 252975-63-6P 252975-69-2P
252975-70-5P 252975-71-6P 252975-72-7P
252975-73-8P 252975-74-9P 252975-77-2P
252975-79-4P 252975-81-8P 252975-82-9P
252975-83-0P 252975-85-2P 252975-87-4P
252975-95-4P 313242-72-7P
RL: PRP (Properties); SPN (Synthetic preparation); PREP
(Preparation)
(aromatic polymers with pendant lithium perfluoroalkylsulfonate or
sulfonimide groups)
IT 252988-95-7P 252988-97-9P
RL: PEP (Physical, engineering or chemical process); SPN (Synthetic
preparation); PREP (Preparation); PROC (Process)
(monomer; for synthesis of aromatic polymers with pendant lithium
perfluoroalkylsulfonate or sulfonimide groups)
IT 26616-35-3 252975-59-0 252975-62-5,
Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]-, lithium salt
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; in preparation of monomer for synthesis of aromatic polymers
with pendant lithium perfluoroalkylsulfonate or sulfonimide
groups)
IT 252975-89-6P 313242-73-8P 313242-74-9P
313273-50-6P 313273-51-7P
RL: PRP (Properties); SPN (Synthetic preparation); PREP
(Preparation)
(synthesis of aromatic polymers with pendant lithium
perfluoroalkylsulfonate or sulfonimide groups)
OS.CITING REF COUNT: 21 THERE ARE 21 CAPLUS RECORDS THAT CITE THIS
RECORD (21 CITINGS)
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L18 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:565925 HCAPLUS Full-text
DOCUMENT NUMBER: 133:350532
TITLE: Aromatic monomers with pendant
fluoroalkylsulfonate and sulfonimide groups
AUTHOR(S): Feiring, A. E.; Wonchoba, E. R.
CORPORATE SOURCE: Experimental Station, Central Research &

Development, E. I. Du Pont de Nemours and Co.,
Wilmington, DE, 19880-0328, USA

SOURCE: Journal of Fluorine Chemistry (2000), 105(1),
129-135
CODEN: JFLCAR; ISSN: 0022-1139

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

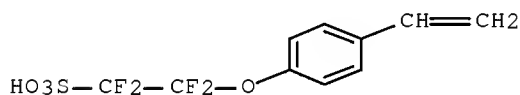
LANGUAGE: English

AB Novel styrene and di-Me isophthalate monomers with pendant lithium
sulfofluoroalkoxy or sulfonimide functional groups have been prepared from the
corresponding phenolic intermediates. One route involves several steps and
uses 1,2-dibromotetrafluoroethane as the key fluorinated intermediate. A
second route with fewer steps utilizes a perfluoroalkylsulfonyl-substituted
vinyl ether as the source of the fluorinated substituents but affords a
product with significantly higher equivalent weight

IT 252975-59-0P 252975-62-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(monomer; preparation of aromatic monomers with pendent sulfofluoroalkoxy
and sulfonimide groups)

RN 252975-59-0 HCAPLUS

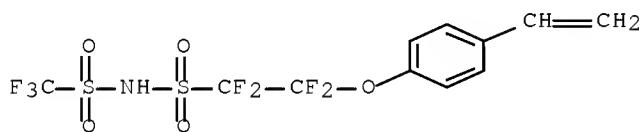
CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt (1:1) (CA INDEX NAME)



● Li

RN 252975-62-5 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]-, lithium salt (1:1) (CA INDEX NAME)



● Li

CC 35-2 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 25

IT 252975-59-0P 252975-62-5P 252975-65-8P
252975-68-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(monomer; preparation of aromatic monomers with pendent sulfofluoroalkoxy
and sulfonimide groups)

OS.CITING REF COUNT: 27 THERE ARE 27 CAPLUS RECORDS THAT CITE THIS
RECORD (27 CITINGS)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L18 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1999:819428 HCAPLUS Full-text
 DOCUMENT NUMBER: 132:50411
 TITLE: Aromatic polymers with pendant fluorinated ionic groups
 INVENTOR(S): Doyle, Christopher Marc; Fiering, Andrew Edward; Choi, Susan Kuharcik
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967304	A1	19991229	WO 1999-US14397	19990625
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2330792	A1	19991229	CA 1999-2330792	19990625
AU 9947198	A	20000110	AU 1999-47198	19990625
AU 752929	B2	20021003		
EP 1095071	A1	20010502	EP 1999-930717	19990625
EP 1095071	B1	20040616		
R: DE, FR, GB, NL, FI				
JP 2003525957	T	20030902	JP 2000-555953	19990625
MX 2000011676	A	20010629	MX 2000-11676	20001127
PRIORITY APPLN. INFO.:			US 1998-90620P	P 19980625
			US 1998-93226P	P 19980717
			WO 1999-US14397	W 19990625

AB The title invention discloses a class of unsatd. compds. including containing a fluoroether-substituted aromatic ring, polymers, including ionomers, formed therefrom, and processes for forming them. The compns. of the invention have particular suitability for use in electrochem. applications.

IT 252975-63-6P 252975-69-2P
252975-70-5P 252975-71-6P 252975-72-7P
252975-73-8P 252975-74-9P 252975-75-0P
252975-76-1P 252975-77-2P 252975-78-3P
252975-79-4P 252975-80-7P 252975-81-8P
252975-82-9P 252975-83-0P 252975-84-1P
252975-85-2P 252975-86-3P 252975-87-4P
252975-88-5P 252975-89-6P 252975-90-9P
252975-95-4P 252988-98-0P

RL: IMF (Industrial manufacture); PRP (Properties); PREP
(Preparation)

(aromatic polymers with pendant fluorinated ionic groups)

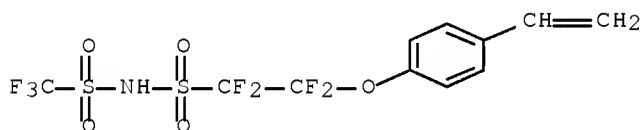
RN 252975-63-6 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]-, lithium salt (1:1), homopolymer (CA
INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li



● Li

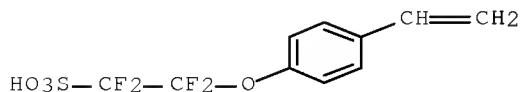
RN 252975-69-2 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt (1:1), homopolymer (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li



● Li

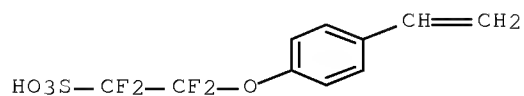
RN 252975-70-5 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li



CM 2

CRN 100-42-5

CMF C8 H8



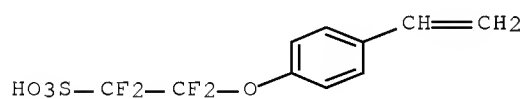
RN 252975-71-6 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with ethenylbenzene and 2-propenenitrile (9CI)
(CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li



CM 2

CRN 107-13-1

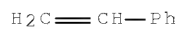
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CM 3

CRN 100-42-5

CMF C8 H8



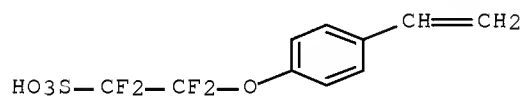
RN 252975-72-7 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene and
lithium 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate
(9CI) (CA INDEX NAME)

CM 1

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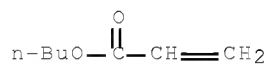
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CM 2

CRN 141-32-2

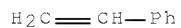
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CM 3

CRN 100-42-5

CMF C8 H8

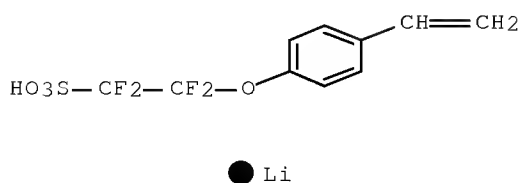


RN 252975-73-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with lithium
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA
INDEX NAME)

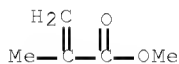
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CRN 252975-59-0
 CMF C10 H8 F4 O4 S . Li



CM 2

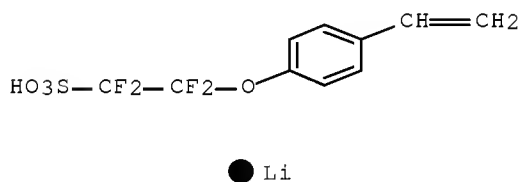
CRN 80-62-6
 CMF C5 H8 O2



RN 252975-74-9 HCAPLUS
 CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
 lithium salt, polymer with 2-propenenitrile (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0
 CMF C10 H8 F4 O4 S . Li



CM 2

CRN 107-13-1
 CMF C3 H3 N



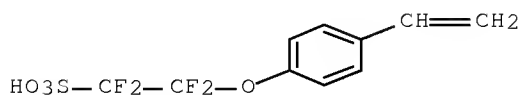
RN 252975-75-0 HCAPLUS
 CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
 lithium salt, polymer with dihydro-3-methylene-2(3H)-furanone (9CI)

(CA INDEX NAME)

CM 1

CRN 252975-59-0

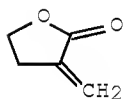
CMF C10 H8 F4 O4 S . Li



CM 2

CRN 547-65-9

CMF C5 H6 O2



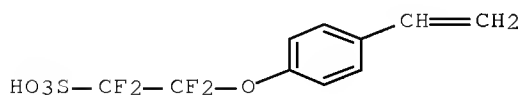
RN 252975-76-1 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with α -(2-methyl-1-oxo-2-propenyl)-
 ω -ethoxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

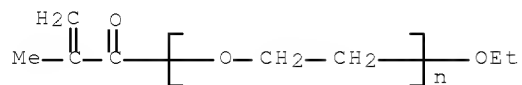


CM 2

CRN 35625-93-5

CMF (C2 H4 O)_n C6 H10 O2

CCI PMS



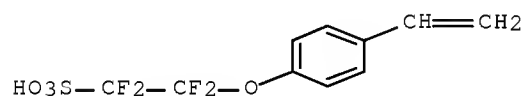
RN 252975-77-2 HCAPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with lithium
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA
INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

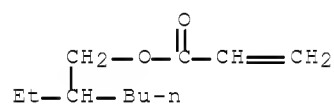


● Li

CM 2

CRN 103-11-7

CMF C11 H20 O2



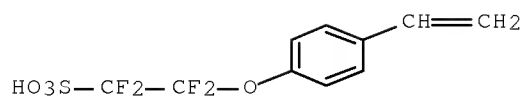
RN 252975-78-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (2-oxo-1,3-dioxolan-4-yl)methyl ester,
polymer with butyl 2-propenoate and lithium
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA
INDEX NAME)

CM 1

CRN 252975-59-0

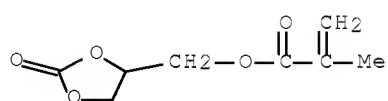
CMF C10 H8 F4 O4 S . Li



CM 2

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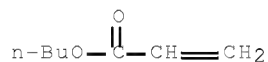
CMF C8 H10 O5



CM 3

CRN 141-32-2

CMF C7 H12 O2



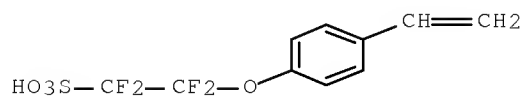
RN 252975-79-4 HCAPLUS

CN 2-Propenoic acid, methyl ester, polymer with lithium
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA
 INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li



CM 2

CRN 96-33-3

CMF C4 H6 O2



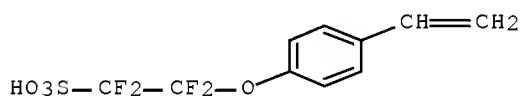
RN 252975-80-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl
di-2-propenoate and lithium 2-(4-ethenylphenoxy)-1,1,2,2-
tetrafluoroethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

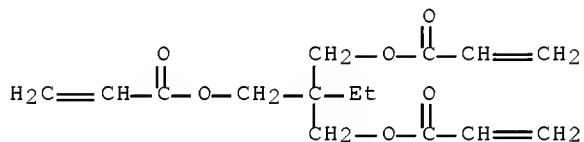
CMF C10 H8 F4 O4 S . Li



CM 2

CRN 15625-89-5

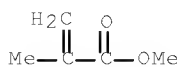
CMF C15 H20 O6



CM 3

CRN 80-62-6

CMF C5 H8 O2



RN 252975-81-8 HCAPLUS

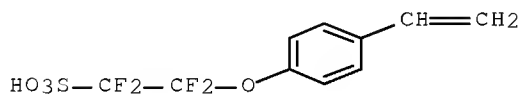
CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with α -(2-methyl-1-oxo-2-propenyl)-

ω -ethoxypoly(oxy-1,2-ethanediyl) and
 α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-
 1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

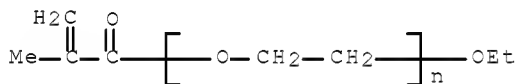


CM 2

CRN 35625-93-5

CMF (C2 H4 O)_n C6 H10 O2

CCI PMS

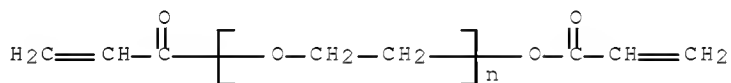


CM 3

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

CCI PMS



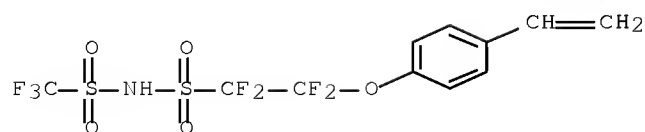
RN 252975-82-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt (9CI) (CA
 INDEX NAME)

CM 1

CRN 252975-62-5

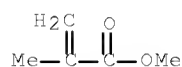
CMF C11 H8 F7 N O5 S2 . Li



CM 2

CRN 80-62-6

CMF C5 H8 O2



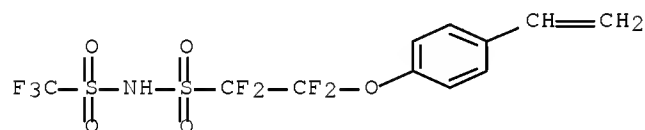
RN 252975-83-0 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt, polymer with
 ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

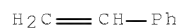
CMF C11 H8 F7 N O5 S2 . Li



CM 2

CRN 100-42-5

CMF C8 H8



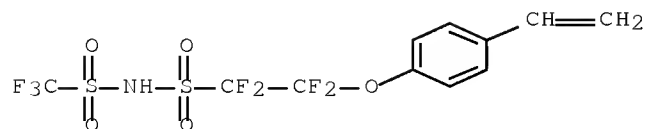
RN 252975-84-1 HCAPLUS

CN 2-Propenoic acid, methyl ester, polymer with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt (9CI) (CA
 INDEX NAME)

CM 1

CRN 252975-62-5

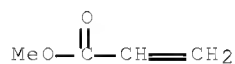
CMF C11 H8 F7 N O5 S2 . Li



CM 2

CRN 96-33-3

CMF C4 H6 O2



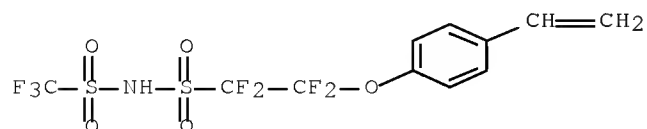
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CN 2-Propenoic acid, butyl ester, polymer with
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt (9CI) (CA
INDEX NAME)

CM 1

CRN 252975-62-5

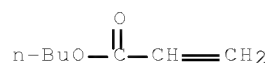
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CM 2

CRN 141-32-2

CMF C7 H12 O2



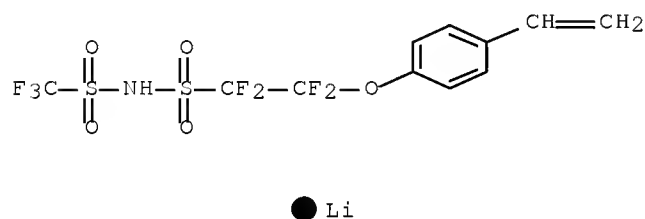
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CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]-, lithium salt, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -ethoxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li

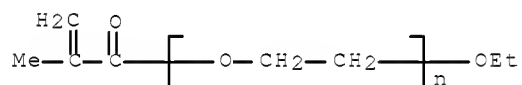


CM 2

CRN 35625-93-5

CMF (C2 H4 O)_n C6 H10 O2

CCI PMS



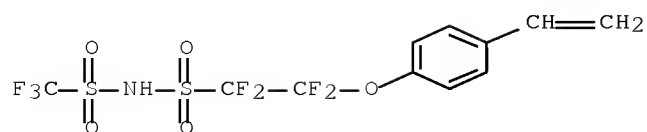
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CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]-, lithium salt, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -ethoxypoly(oxy-1,2-ethanediyl) and α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li

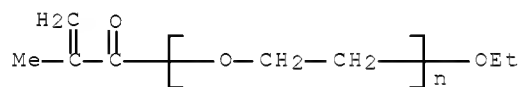


CM 2

CRN 35625-93-5

CMF (C2 H4 O)_n C6 H10 O2

CCI PMS

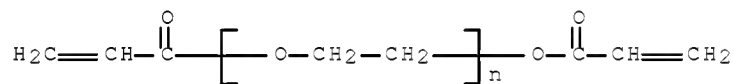


CM 3

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

CCI PMS



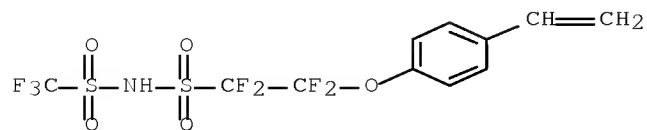
RN 252975-88-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (2-oxo-1,3-dioxolan-4-yl)methyl ester,
polymer with 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt and methyl
2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

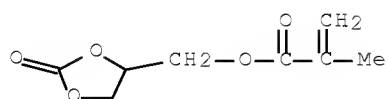
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CM 2

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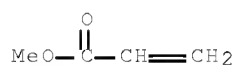
CMF C8 H10 O5



CM 3

CRN 96-33-3

CMF C4 H6 O2



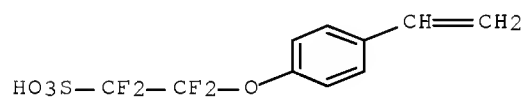
RN 252975-89-6 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with (chloromethyl)oxirane, oxirane and
[(2-propenyloxy)methyl]oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

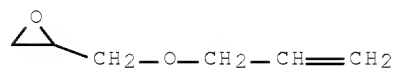
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CM 2

CRN 106-92-3

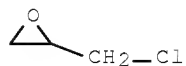
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CM 3

CRN 106-89-8

CMF C3 H5 Cl O



CM 4

CRN 75-21-8

CMF C2 H4 O



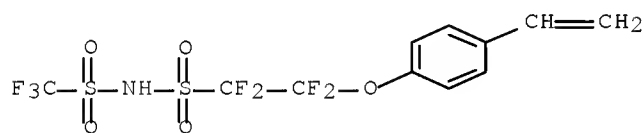
RN 252975-90-9 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt, polymer with
 (chloromethyl)oxirane, oxirane and [(2-propenyloxy)methyl]oxirane
 (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

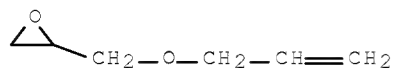
CMF C11 H8 F7 N O5 S2 . Li

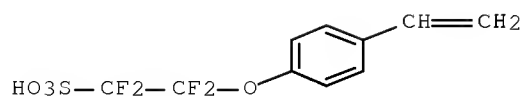


CM 2

CRN 106-92-3

CMF C6 H10 O2

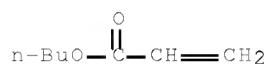




CM 3

CRN 141-32-2

CMF C7 H12 O2



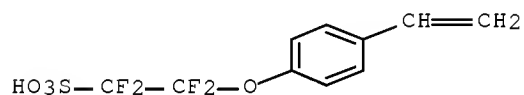
RN 252988-98-0 HCAPLUS

CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonic acid (1:1),
 polymer with lithium 2-(4-ethenylphenoxy)-1,1,2,2-
 tetrafluoroethanesulfonate and methyl 2-methyl-2-propenoate (9CI)
 (CA INDEX NAME)

CM 1

CRN 252975-59-0

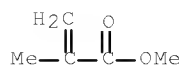
CMF C10 H8 F4 O4 S . Li



CM 2

CRN 80-62-6

CMF C5 H8 O2

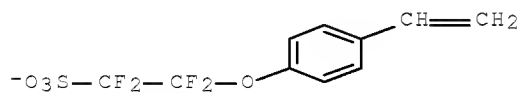


CM 3

CRN 252988-95-7
 CMF C12 H18 N . C10 H7 F4 O4 S

CM 4

CRN 252988-94-6
 CMF C10 H7 F4 O4 S



CM 5

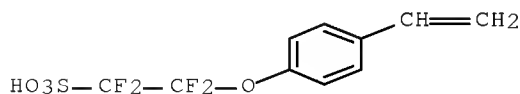
CRN 53867-17-7
 CMF C12 H18 N
 CCI IDS



D1-CH=CH2

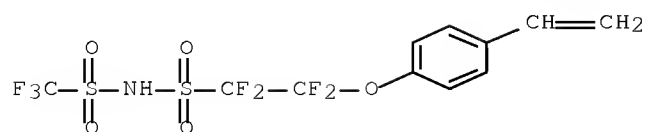
Me3+N-CH2-D1

IT 252975-59-0P 252975-62-5P
 252988-95-7P 252988-97-9P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP
 (Preparation); RACT (Reactant or reagent)
 (aromatic polymers with pendant fluorinated ionic groups)
 RN 252975-59-0 HCAPLUS
 CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
 lithium salt (1:1) (CA INDEX NAME)



● Li

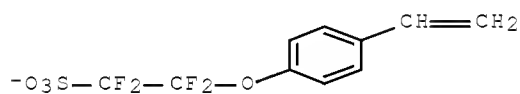
RN 252975-62-5 HCAPLUS
 CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt (1:1) (CA INDEX NAME)



RN 252988-95-7 HCAPLUS
 CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonic acid (1:1)
 (9CI) (CA INDEX NAME)

CM 1

CRN 252988-94-6
 CMF C10 H7 F4 O4 S



CM 2

CRN 53867-17-7
 CMF C12 H18 N
 CCI IDS



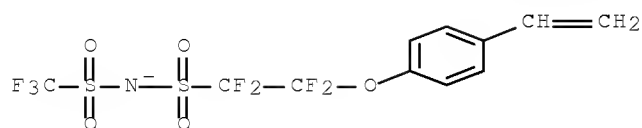
D1-CH=CH2

Me3+N-CH2-D1

RN 252988-97-9 HCAPLUS
 CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide (1:1) (9CI) (CA INDEX
 NAME)

CM 1

CRN 252988-96-8
 CMF C11 H7 F7 N O5 S2



CM 2

CRN 53867-17-7

CMF C12 H18 N

CCI IDS



D1-CH=CH2

Me3+N-CH2-D1

IC ICM C08F012-30
ICS C07C317-18; C08G063-688; C07C311-24; C07C309-11; H01M006-18;
H01M010-40; H01B001-12

CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 76

IT 252975-63-6P 252975-69-2P
252975-70-5P 252975-71-6P 252975-72-7P
252975-73-8P 252975-74-9P 252975-75-0P
252975-76-1P 252975-77-2P 252975-78-3P
252975-79-4P 252975-80-7P 252975-81-8P
252975-82-9P 252975-83-0P 252975-84-1P
252975-85-2P 252975-86-3P 252975-87-4P
252975-88-5P 252975-89-6P 252975-90-9P
252975-91-0P 252975-92-1P 252975-95-4P
252988-98-0P

RL: IMF (Industrial manufacture); PRP (Properties); PREP
(Preparation)
(aromatic polymers with pendant fluorinated ionic groups)

IT 113939-45-0P 252975-56-7P 252975-57-8P 252975-58-9P
252975-59-0P 252975-60-3P 252975-61-4P
252975-62-5P 252975-65-8P 252975-66-9P 252975-67-0P
252975-68-1P 252988-95-7P 252988-97-9P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(aromatic polymers with pendant fluorinated ionic groups)

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REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

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